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NOTICE OF ALLOWANCE AND FEE(S) DUE

22917 7590 0220/2009 MOTOROLA, INC. 1303 EAST ALGONQUIN ROAD IL01/3RD

SCHAUMBURG, IL 60196

EXAMINER

SQUIRES, BRETT S

ART UNIT PAPER NUMBER

241

DATE MAILED: 02/20/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/550,109	09/19/2005	Alexis Olivereau	CML00668EP	1020

TITLE OF INVENTION: COMMUNICATION BETWEEEN A PRIVATE NETWORK AND A ROAMING MOBILE TERMINAL

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/20/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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SCHAUMBURG	.i, IL 60196					(Depositor's name)
			<u> </u>			(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/550,109 TITLE OF INVENTION	09/19/2005 : COMMUNICATION I	BETWEEEN A PRIVA	Alexis Olivereau TE NETWORK AND A RO	AMING MOBILE T	CML00668EP TERMINAL	1020
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nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/20/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS]		
SQUIRES,	BRETT S	243I	726-013000	•		
"Fee Address" ind. PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DATZ less an assignee is ident h in 37 CFR 3.II. Comp	inge of Correspondence "Indication form and. Use of a Customer A TO BE PRINTED ON	registered attorney or a 2 registered patent atto listed, no name will be	3 registered patent vely, e firm (having as a ragent) and the names racys or agents. If no printed.	nember a 2 s of up to o name is 3	document has been filed for
Please check the appropr		categories (will not be	_			roup entity Government
4a. The following fee(s): Issue Fee Publication Fee (N Advance Order - 4	o small entity discount p		4b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	d. Form PTO-2038	is attached.	e shown above) deficiency, or credit any an extra copy of this form).
	s SMALL ENTITY state	us. See 37 CFR 1.27.			ENTITY status. Sec 37	
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accep tes Patent and Tradema	ted from anyone other than t rk Office.	he applicant; a regist	ered attorney or agent; or	the assignee or other party in
Authorized Signature				Date		
Typed or printed name				Registration No		
This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 d application form to the ons for reducing this but firginia 22313-1450. DC 13-1450.	CFR 1.311. The informa U.S.C. 122 and 37 CF USPTO. Time will varden, should be sent to O NOT SEND FEES OF	tion is required to obtain or r R 1.14. This collection is est ry depending upon the indiv the Chief Information Office R COMPLETED FORMS To	etain a benefit by the imated to take 12 m idual case. Any con er, U.S. Patent and T D THIS ADDRESS.	e public which is to file (a inutes to complete, includ ments on the amount of rademark Office, U.S. De SEND TO: Commissione	nd by the USPTO to process) ing gathering, preparing, and ime you require to complete partment of Commerce, P.O. r for Patents, P.O. Box 1450,

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MOTOROLA, INC.			SQUIRES, BRETTS		
1303 EAST ALGONQUIN ROAD				ART UNIT	PAPER NUMBER
IL01/3RD SCHAUMBURG, IL 60196			2431 DATE MAII ED: 02/20/200	19	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 660 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 660 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/550,109 OLIVEREAU ET AL. Notice of Allowability Examiner Art Unit BRETT SOUIRES 2431 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 21 January 2009. The allowed claim(s) is/are 1-4 and 9-12. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: a) 🔯 All 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. Examiner's Amendment/Comment Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other .

/Christopher A. Revak/ Primary Examiner, Art Unit 2431 Application/Control Number: 10/550,109

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Allowable Subject Matter

Claims 1-4 and 9-12 are allowed over the prior art of record.

The following is an examiner's statement of reasons for allowance: the most relevant reference Leung et al. (US 7.246.373) discloses Leung discloses a method of communication between a private network ("Private Network" See figure 1 ref. no. 117) and a roaming mobile terminal ("Client" See figure 1 ref. nos. 103, 105 and col. 1 lines 49-66), the private network including a home agent ("VPN Server" See figure 1 ref. no. 107) for the mobile terminal and a gateway ("VPN Server" See figure 1 ref. no. 107) through which the communication passes and which provides security protection for the private network, the protocols of the communication ("IPsec" See col. 4 lines 65-67 and col. 5 lines 1-3) include security association bundles each including a security association between the mobile terminal and the gateway for inbound communication ("Subnetwork Address for Client" "Subnetwork Address for VPN Server" and "Enterprise Address" See col. 4 lines 12-49) and another security association for outbound communication ("Subnetwork Address for Client" "Subnetwork Address for VPN Server" and "Enterprise Address" See col. 4 lines 12-49), the method performing in response to a handover of communication causing an IP address of the mobile terminal to change to a new IP address ("Client moves from a first subnetwork to a second subnetwork" See col. 1 lines 49-66), the mobile terminal updates its inbound security association from the gateway so that it can receive packets sent to it with the new IP address as destination ("The VPN client automatically obtains a second subnetwork address" See col. 9 lines 13-15), the mobile terminal sends a first signaling message with the home agent as

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destination in a secure tunnel to the gateway ("The VPN Client automatically attempts to re-establish the VPN tunnel by sending the second subnetwork address, a username. and a password to the VPN server" See col. 9 lines 13-37), the first signaling message indicating the new IP address in secure form to home agent ("VPN server and client allow encryption of messages" See col. 5 lines 32-43), the inbound security association of the gateway from the mobile terminal accepts the first signaling message without checking its source address ("The user name and password information are verified instead of the source address" See col. 5 lines 32-43), the gateway forwards the first signaling message within the private network to the home agent ("The examiner respectfully points out that the VPN server is being construed as being a part of the private network."), the home agent checks the validity of the first signaling message ("The user name and password information are verified instead of the source address" See col. 5 lines 32-43) and, if it is valid, updates its address data and sends a second signaling message to the gateway indicating the new address ("The VPN server will generate an internal message to grant the client access to virtual private network by updating the subnetwork address of the client in response to verification of the user name and password" See col. 5 22-43), and the gateway updates its outbound security association with the mobile terminal in response to the new address indicated ("The tunnel to the VPN server is created" See col. 9 lines 13-37).

The communication protocol disclosed by Leung to provide secure seamless mobile communications between a private network client and a private network server does not use care-of IP addresses. The communication protocol disclosed by Leung

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instead uses a permanent enterprise address and a variable subnetwork address to provide secure seamless mobile communications. The permanent enterprise address is an IP address while the subnetwork address is an address specific to the private network client which is uniquely defined within a private network. Leung teaches away from providing secure seamless using protocol that rely on care-of addresses, such as mobile internet protocol, by stating that "However, many conventional MobileIP standards do not provide for secure connections." (See Leung col. 2 lines 3-9)

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRETT SQUIRES whose telephone number is (571) 272-8021. The examiner can normally be reached on 9:30am - 6:00pm Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/BS/

/Christopher A. Revak/ Primary Examiner, Art Unit 2431